ATTORNEY DOCKET NO. ESST-04301

Claims:

1. An analog to digital converter (DAC)comprising:
a first circuit configured to remove even harmonic errors from an output signal,
the first circuit having a first DAC module configured with a first threshold input for
receiving a first threshold value and a second threshold input for receiving a second
threshold value, where the two threshold inputs define a threshold range that varies
between a low voltage threshold and a high voltage threshold, and a switching circuit
configured to reverse the threshold values between the first and second threshold inputs
a second circuit configured to remove odd harmonics from an output signal, the
second circuit having a second DAC module configured with a third threshold input for
receiving a third threshold value and a fourth threshold input for receiving a fourth
threshold value, where the third and fourth threshold inputs define a threshold range that
varies between a low voltage threshold and a high voltage threshold, and a switching
circuit configured to reverse the threshold values between the first and second threshold
inputs; and
a differential amplifier configured to receive an output from the first circuit and
an inverted output from the second circuit, and configured to transmit an output signal